

AUTHOR INDEX TO VOLUME 35, NUMBER 3,4

Ado, K., see T. Asai	35 (1989) 319
Aniya, M. and M. Kobayashi, Collective modes in a fast ion conductor superlattice	35 (1989) 427
Arai, H., see T. Inoue	35 (1989) 285
Arashi, H., S. Shin, H. Miura, A. Nakashima, M. Ishigame and O. Shimomura, Investigations of valence change of Tb ions in ZrO_2 - Tb_4O_7 mixed conductor using XANES measurements	35 (1989) 323
Asai, T., see Y. Saito	35 (1989) 241
Asai, T., K. Ado, Y. Saito, H. Kageyama and O. Nakamura, Mixed conductivity of $Na_{1+4x}M_x^{II}Fe_{2x}^{III}Zr_{2-3x}P_3O_{12}$, M^{II} : Fe^{2+} , Co^{2+} and Ni^{2+}	35 (1989) 319
Eguchi, K., see T. Inoue	35 (1989) 285
Esaka, T., see W.J. Zheng	35 (1989) 235
Fuchida, R., see N. Machida	35 (1989) 295
Fujiki, Y., see Y. Michiue	35 (1989) 223
Fujiki, Y., see M. Watanabe	35 (1989) 369
Fujiki, Y., see S. Yoshikado	35 (1989) 377
Fujiki, Y., see Y. Onoda	35 (1989) 387
Fujitsu, S., see H. Takayama	35 (1989) 411
Fukunaga, O., see H. Ikawa	35 (1989) 217
Hoshi, T., see A. Yamashita	35 (1989) 397
Ikawa, H., K. Shima, T. Taniguchi, K. Urabe, O. Fukunaga and J. Mizusaki, Conductivity measurements of β -alumina type NH_4^+ -gallate by dc four-terminal method	35 (1989) 217
Imai, S., T. Ohachi and I. Taniguchi, Coulometric titration curves of α -Ag ₂ Se containing Ag atom traps	35 (1989) 343
Inoue, H., see K. Sakurai	35 (1989) 405
Inoue, T., T. Setoguchi, K. Eguchi and H. Arai, Study of a solid oxide fuel cell with a ceria-based solid electrolyte	35 (1989) 285
Ishida, M., see N. Nakagawa	35 (1989) 249
Ishigame, M., see S. Muto	35 (1989) 307
Ishigame, M., see H. Arashi	35 (1989) 323
Ito, S., see K. Uchinokura	35 (1989) 207
Iwahara, H., see H. Uchida	35 (1989) 229
Iwahara, H., see W.J. Zheng	35 (1989) 235
Kageyama, H., see T. Asai	35 (1989) 319
Kanashiro, T., see Y. Michihiro	35 (1989) 337
Kanazawa, T., see K. Yamashita	35 (1989) 299
Kanazawa, T., see H. Owada	35 (1989) 401

Kaneko, H., A. Nagai and H. Taimatsu, ac polarization phenomena of the YSZ/Rh and YSZ/Pd electrode systems 35 (1989) 257

Kawamura, J. and Y. Oyama, Microwave conductivity of $(\text{AgI})_{1-x}-(\text{Ag}_2\text{MoO}_4)_x$ ($x=0.25, 0.3, 0.35$) glasses 35 (1989) 311

Kobayashi, M., see F. Tachibana 35 (1989) 349

Kobayashi, M., see T. Tomari 35 (1989) 355

Kobayashi, M., see M. Aniya 35 (1989) 427

Kobayashi, M., see T. Tomoyose 35 (1989) 431

Kojima, A., see Y. Michihiro 35 (1989) 337

Kuroda, C., see N. Nakagawa 35 (1989) 249

Kushida, T., see M. Nagai 35 (1989) 213

Machida, N., R. Fuchida and T. Minami, Electrochemical insertion of lithium ions into V_2O_5 glasses containing transition-metal oxides 35 (1989) 295

Michihiro, Y., A. Ohtani, T. Ohno, T. Kanashiro and A. Kojima, ac conductivity of the ionic conductor Ag_3Si 35 (1989) 337

Michiue, Y., M. Watanabe and Y. Fujiki, Structural properties of $\text{Na}-\beta''$ -gallate 35 (1989) 223

Minami, T., see N. Machida 35 (1989) 295

Miura, H., see H. Arashi 35 (1989) 323

Mizusaki, J., see H. Ikawa 35 (1989) 217

Mizusaki, J., see K. Tsuneyoshi 35 (1989) 263

Mori, K., see K. Tsuneyoshi 35 (1989) 263

Muto, S., T. Suemoto and M. Ishigame, Raman scattering of the superionic conducting glasses in the system $\text{AgI}-\text{Ag}_2\text{O}-\text{MoO}_3$ 35 (1989) 307

Nagai, A., see H. Kaneko 35 (1989) 257

Nagai, M., T. Kushida and T. Nishino, Fabrication and evaluation of porous $\beta/\beta''-\text{Al}_2\text{O}_3$ ceramics prepared by the sol-gel process 35 (1989) 213

Nagai, M., see H. Owada 35 (1989) 401

Nagamoto, H., see K. Sakurai 35 (1989) 405

Naito, K., see T. Tsuji 35 (1989) 331

Nakagawa, N., H. Yoshioka, C. Kuroda and M. Ishida, Electrode performance of a thin-film YSZ cell set on a porous ceramic substrate by rf sputtering technique 35 (1989) 249

Nakamura, O., see Y. Saito 35 (1989) 241

Nakamura, O., see T. Asai 35 (1989) 319

Nakashima, A., see H. Arashi 35 (1989) 323

Nariki, S., see K. Uchinokura 35 (1989) 207

Nishino, T., see M. Nagai 35 (1989) 213

Nojiri, T., see K. Yamashita 35 (1989) 299

Ogumi, Z., see Y. Uchimoto 35 (1989) 417

Ohachi, T., see S. Imai 35 (1989) 343

Ohachi, T., see M. Watanabe 35 (1989) 369

Ohachi, T., see S. Yoshikado 35 (1989) 377

Ohachi, T., see Y. Onoda 35 (1989) 387

Ohno, T., see Y. Michihiro 35 (1989) 337

Ohtani, A., see Y. Michihiro 35 (1989) 337

Ohtsuka, H. and J. Yamaki, Electrical characteristics of $\text{Li}_2\text{O}-\text{V}_2\text{O}_5-\text{SiO}_2$ thin films 35 (1989) 201
 Okazaki, H., see F. Tachibana 35 (1989) 349
 Okazaki, H., see T. Tomari 35 (1989) 355
 Okuyama, R., see W.J. Zheng 35 (1989) 235
 Onoda, Y., see S. Yoshikado 35 (1989) 377
 Onoda, Y., M. Watanabe, Y. Fujiki, S. Yoshikado, T. Ohachi and I. Taniguchi, NMR study of one-dimensional ionic conductor $\text{A}_x\text{Ga}_8\text{Ga}_{8+x}\text{Ti}_{16-x}\text{O}_{56}$ ($\text{A}=\text{Cs, Rb}$) 35 (1989) 387
 Owada, H., K. Yamashita, T. Umegaki, T. Kanazawa and M. Nagai, Humidity-sensitivity of yttrium substituted apatite ceramics 35 (1989) 401
 Oyama, Y., see J. Kawamura 35 (1989) 311

Saito, M., H. Takahashi and S. Tamaki, Phase diagram and thermodynamic properties of $(\text{Ag}_x\text{Cu}_{1-x})\text{Br}$ 35 (1989) 359
 Saito, Y., T. Asai, O. Nakamura and Y. Yamamoto, Ionic conductivity enhancement of $\text{Na}_4\text{Zr}_2\text{Si}_3\text{O}_{12}$ by dispersed solid superacid $\text{SO}_4^{2-}/\text{ZrO}_2$ 35 (1989) 241
 Saito, Y., see T. Asai 35 (1989) 319
 Sakurai, K., H. Nagamoto and H. Inoue, Microstructure of Pt electrodes over solid-electrolyte and its effects on interfacial impedance 35 (1989) 405
 Sawata, A., see K. Tsuneyoshi 35 (1989) 263
 Sekido, S., see A. Yamashita 35 (1989) 397
 Setoguchi, T., see T. Inoue 35 (1989) 285
 Shima, K., see H. Ikawa 35 (1989) 217
 Shimomura, O., see H. Arashi 35 (1989) 323
 Shin, S., see H. Arashi 35 (1989) 323
 Sōmiya, S., see Y. Yokogawa 35 (1989) 275
 Suemoto, T., see S. Muto 35 (1989) 307
 Sugiyama, K., see Y. Suzuki 35 (1989) 269
 Suzuki, Y. and K. Sugiyama, Electrical conduction behavior and phase transition of CaO -stabilized ZrO_2 35 (1989) 269

Tachibana, F., M. Kobayashi and H. Okazaki, Correlation factor of silver ion in $\alpha\text{-Ag}_2\text{Te}$ by molecular dynamics method 35 (1989) 349
 Tagawa, H., see K. Tsuneyoshi 35 (1989) 263
 Taimatsu, H., see H. Kaneko 35 (1989) 257
 Takahashi, H., see M. Saito 35 (1989) 359
 Takayama, H., S. Fujitsu and H. Yanagida, Gas-sensitive Ag ion conduction in semiconducting ZnO thin films 35 (1989) 411
 Takeda, T., see A. Yamashita 35 (1989) 397
 Takehara, Z., see Y. Uchimoto 35 (1989) 417
 Tamaki, S., see M. Saito 35 (1989) 359
 Taniguchi, I., see S. Imai 35 (1989) 343
 Taniguchi, I., see S. Yoshikado 35 (1989) 377
 Taniguchi, I., see Y. Onoda 35 (1989) 387
 Taniguchi, T., see H. Ikawa 35 (1989) 217
 Tomari, T., M. Kobayashi and H. Okazaki, Caterpillar motion of silver ions in $\alpha\text{-Ag}_2\text{Te}$ 35 (1989) 355
 Tomoyose, T., K. Yonashiro and M. Kobayashi, Collective excitations in layered super-ionic conductors 35 (1989) 431
 Tsuchiya, H., see T. Tsuji 35 (1989) 331

Tsuji, T., H. Tsuchiya and K. Naito, Diffusion broadening of the Mössbauer line of Fe_{1-x}S 35 (1989) 331

Tsuneyoshi, K., K. Mori, A. Sawata, J. Mizusaki and H. Tagawa, Kinetic studies on the reaction at the $\text{La}_{0.6}\text{Ca}_{0.4}\text{MnO}_3/\text{YSZ}$ interface, as an SOFC air electrode 35 (1989) 263

Uchida, H., H. Yoshikawa and H. Iwahara, Dissolution of water vapor (or hydrogen) and proton conduction in SrCeO_3 -based oxides at high temperature 35 (1989) 229

Uchimoto, Y., Z. Ogumi and Z. Takehara, Ionically conductive thin polymer films prepared by plasma polymerization. Part 6. Plasma parameter-dependent characteristics of solid polymer electrolytes composed of plasma polymerized tris(2-methoxyethoxy)vinylsilane-lithium perchlorate hybrids 35 (1989) 417

Uchinokura, K., S. Nariki, S. Ito and N. Yoneda, Thermal decomposition process and electrical conductivity of single crystals of NH_4^+ - β - and β'' -ferrites 35 (1989) 207

Umegaki, T., see K. Yamashita 35 (1989) 299

Umegaki, T., see H. Owada 35 (1989) 401

Urabe, K., see H. Ikawa 35 (1989) 217

Watanabe, A., Phase stability of $\text{Bi}_{0.765}\text{Sr}_{0.235}\text{O}_{1.383}$ -type bismuth mixed oxides with hexagonal symmetry 35 (1989) 281

Watanabe, M., see Y. Michiue 35 (1989) 223

Watanabe, M., Y. Fujiki, S. Yoshikado and T. Ohachi, Structural features of a new compound $\text{K}_{1-x}\text{Ti}_{2+x}\text{Ga}_{5-x}\text{O}_{12}$ which exhibits one dimensional ionic conduction 35 (1989) 369

Watanabe, M., see S. Yoshikado 35 (1989) 377

Watanabe, M., see Y. Onoda 35 (1989) 387

Yamaki, J., see H. Ohtsuka 35 (1989) 201

Yamamoto, Y., see Y. Saito 35 (1989) 241

Yamashita, A., S. Sekido, T. Hoshi and T. Takeda, Solid state photorechargeable cells using a complex electrode consisting of semiconductor and Chevrel compounds 35 (1989) 397

Yamashita, K., T. Nojiri, T. Umegaki and T. Kanazawa, New fast sodium-ion conducting glass-ceramics of silicophosphates: crystallization, microstructure and conduction properties 35 (1989) 299

Yamashita, K., see H. Owada 35 (1989) 401

Yanagida, H., see H. Takayama 35 (1989) 411

Yokogawa, Y., M. Yoshimura and S. Sōmiya, Lattice energy and polymorphism of fluorite-related rare earth-tantalum double oxides 35 (1989) 275

Yonashiro, K., see T. Tomoyose 35 (1989) 431

Yoneda, N., see K. Uchinokura 35 (1989) 207

Yoshikado, S., see M. Watanabe 35 (1989) 369

Yoshikado, S., T. Ohachi, I. Taniguchi, M. Watanabe, Y. Fujiki and Y. Onoda, Ion conduction in one-dimensional ionic conductors $\text{A}_{1-x}\text{Ti}_{2+x}\text{B}_{5-x}\text{O}_{12}$ (ATBO, A=Na or K and B=Al or Ga, $x < 1$) 35 (1989) 377

Yoshikado, S., see Y. Onoda 35 (1989) 387

Yoshikawa, H., see H. Uchida 35 (1989) 229

Yoshimura, M., see Y. Yokogawa 35 (1989) 275

Yoshioka, H., see N. Nakagawa 35 (1989) 249

Zheng, W.J., R. Okuyama, T. Esaka and H. Iwahara, Ionic conduction in the sintered oxides of the system $\text{Li}_2\text{O}-\text{BaO}-\text{MO}_2$ (M=Ti, Sn, Zr) 35 (1989) 235

AUTHOR INDEX TO VOLUME 35

Adelbert, P., F. Novel-Cattin, M. Pinéri, C. Doumain and R. Durand, Preparation and characterization of SPE composites for electrolyzers and fuel cells	35 (1989) 3
Ado, K., see T. Asai	35 (1989) 319
Ahmad, A., see J. Gulens	35 (1989) 45
Ahmad, A., see J.D. Canaday	35 (1989) 165
Alberti, G. and R. Palombari, All solid-state hydrogen sensors based on pellicular α -zirconium phosphate as a protonic conductor	35 (1989) 153
Aniya, M. and M. Kobayashi, Collective modes in a fast ion conductor superlattice	35 (1989) 427
Arai, H., see T. Inoue	35 (1989) 285
Arashi, H., S. Shin, H. Miura, A. Nakashima, M. Ishigame and O. Shimomura, Investigations of valence change of Tb ions in ZrO_2 - Tb_2O_7 mixed conductor using XANES measurements	35 (1989) 323
Asai, T., see Y. Saito	35 (1989) 241
Asai, T., K. Ado, Y. Saito, H. Kageyama and O. Nakamura, Mixed conductivity of $Na_{1+4x}M_x^{II}Fe_{2x}^{III}Zr_{2-3x}P_3O_{12}$, M^{II} : Fe^{2+} , Co^{2+} and Ni^{2+}	35 (1989) 319
Badot, J.C. and Ph. Colomban, RF-microwave dielectric relaxations and phase transitions in superionic acid sulphates (selenates)	35 (1989) 143
Baranowski, B., see M. Friesel	35 (1989) 85, 91
Barker, J., see R.C.T. Slade	35 (1989) 11
Bell, R.G., see M.T. Weller	35 (1989) 79
Besse, J.P., see A. de Roy	35 (1989) 35
Bhat, S.V., see G. Mangamma	35 (1989) 123
Bonanos, N., B. Ellis, K.S. Knight and M.N. Mahmood, Ionic conductivity of gadolinium-doped barium cerate perovskites	35 (1989) 179
Brown, S.H., see R. Frech	35 (1989) 127
Canaday, J.D., see J. Gulens	35 (1989) 45
Canaday, J.D., A.K. Kuriakose, T.A. Wheat, A. Ahmad, J. Gulens and B.W. Hildebrandt, Bonded solid protonic conductor/platinum electrochemical cells	35 (1989) 165
Casciola, M., see E. Skou	35 (1989) 59
Casciola, M., U. Costantino and M. Marmottini, Influence of the guest molecules on the protonic conduction of anhydrous intercalation compounds of α -zirconium hydrogen phosphate with diamines	35 (1989) 67
Colomban, Ph., see T. Mhiri	35 (1989) 99
Colomban, Ph., see J.C. Badot	35 (1989) 143
Costantino, U., see M. Casciola	35 (1989) 67
Cruege, F., see J.C. Lassegues	35 (1989) 17
Dekker, M., I. 't Zand, J. Schram and J. Schoonman, NH_4Y and HY zeolites as electrolytes in hydrogen sensors	35 (1989) 157

Deniard, S., see E. Husson	35 (1989) 133
De Roy, A. and J.P. Besse, Conductivité ionique de composés de type hydrotalcite	35 (1989) 35
Desbat, B., see J.C. Lassegues	35 (1989) 17
Doremieux-Morin, C., see E. Husson	35 (1989) 133
Doumain, C., see P. Adelbert	35 (1989) 3
Durand, R., see P. Adelbert	35 (1989) 3
Durand-Le Floch, M., see E. Husson	35 (1989) 133
Eguchi, K., see T. Inoue	35 (1989) 285
Ellis, B., see N. Bonanos	35 (1989) 179
Esaka, T., see W.J. Zheng	35 (1989) 235
Frech, R. and S.H. Brown, Hydrazinium ion vibrational motion and proton transport in lithium hydrazinium sulfate	35 (1989) 127
Friesel, M., B. Baranowski and A. Lundén, Pressure dependence of the transition to the proton conducting phase of CsHSO_4 , CsHSeO_4 and RbHSeO_4 studied by differential scanning calorimetry	35 (1989) 85
Friesel, M., A. Lundén and B. Baranowski, Bulk phase transitions of cesium hydrogen sulfate initiated by surface processes, grinding or external pressure	35 (1989) 91
Fuchida, R., see N. Machida	35 (1989) 295
Fujiki, Y., see Y. Michiue	35 (1989) 223
Fujiki, Y., see M. Watanabe	35 (1989) 369
Fujiki, Y., see S. Yoshikado	35 (1989) 377
Fujiki, Y., see Y. Onoda	35 (1989) 387
Fujitsu, S., see H. Takayama	35 (1989) 411
Fukunaga, O., see H. Ikawa	35 (1989) 217
Guerrini, F., see E. Skou	35 (1989) 59
Gulens, J., B.W. Hildebrandt, J.D. Canaday, A.K. Kuriakose, T.A. Wheat and A. Ahmad, Influence of water on the electrochemical response of a bonded NASICON protonic conductor	35 (1989) 45
Gulens, J., see J.D. Canaday	35 (1989) 165
Hall, G.P., see R.C.T. Slade	35 (1989) 29
Hildebrandt, B.W., see J. Gulens	35 (1989) 45
Hildebrandt, B.W., see J.D. Canaday	35 (1989) 165
Hoshi, T., see A. Yamashita	35 (1989) 397
Hudson, M.J., P. Sylvester and E. Rodrigues-Castellon, Intercalation of monomers into alpha-tin(IV) hydrogen phosphate and the effects of high pressures on intercalation	35 (1989) 73
Husson, E., M. Durand-Le Floch, C. Doremieux-Morin, S. Deniard and Y. Piffard, Spectroscopic study of the phosphatoantimonic acids $\text{H}_n\text{Sb}_n\text{P}_2\text{O}_{3n+5} \cdot x\text{H}_2\text{O}$ ($n=1, 3, 5$)	35 (1989) 133
Ikawa, H., K. Shima, T. Taniguchi, K. Urabe, O. Fukunaga and J. Mizusaki, Conductivity measurements of β'' -alumina type NH_4^+ -gallate by dc four-terminal method	35 (1989) 217
Imai, S., T. Ohachi and I. Taniguchi, Coulometric titration curves of α -Ag ₂ Se containing Ag atom traps	35 (1989) 343
Inoue, H., see K. Sakurai	35 (1989) 405

Inoue, T., T. Setoguchi, K. Eguchi and H. Arai, Study of a solid oxide fuel cell with a ceria-based solid electrolyte	35 (1989) 285
Ishida, M., see N. Nakagawa	35 (1989) 249
Ishigame, M., see S. Muto	35 (1989) 307
Ishigame, M., see H. Arashi	35 (1989) 323
Ito, S., see K. Uchinokura	35 (1989) 207
Iwahara, H., see H. Uchida	35 (1989) 229
Iwahara, H., see W.J. Zheng	35 (1989) 235
Jones, D.J. and J. Rozière, Layered proton conducting trivalent metal acid sulphates: intercalation reactions, characterisation by incoherent inelastic neutron scattering and EXAFS spectroscopies	35 (1989) 115
Kageyama, H., see T. Asai	35 (1989) 319
Kanashiro, T., see Y. Michihiro	35 (1989) 337
Kanazawa, T., see K. Yamashita	35 (1989) 299
Kanazawa, T., see H. Owada	35 (1989) 401
Kaneko, H., A. Nagai and H. Taimatsu, ac polarization phenomena of the YSZ/Rh and YSZ/Pd electrode systems	35 (1989) 257
Kawamura, J. and Y. Oyama, Microwave conductivity of $(\text{AgI})_{1-x}-(\text{Ag}_2\text{MoO}_4)_x$ ($x=0.25, 0.3, 0.35$) glasses	35 (1989) 311
Knight, K.S., see N. Bonanos	35 (1989) 179
Knudsen, N., E. Krogh Andersen, I.G. Krogh Andersen and E. Skou, Tin-mordenites, syntheses and ionic conductivity	35 (1989) 51
Kobayashi, M., see F. Tachibana	35 (1989) 349
Kobayashi, M., see T. Tomari	35 (1989) 355
Kobayashi, M., see M. Aniya	35 (1989) 427
Kobayashi, M., see T. Tomoyose	35 (1989) 431
Kojima, A., see Y. Michihiro	35 (1989) 337
Krogh Andersen, E., see N. Knudsen	35 (1989) 51
Krogh Andersen, E., see E. Skou	35 (1989) 59
Krogh Andersen, I.G., see N. Knudsen	35 (1989) 51
Krogh Andersen, I.G., see E. Skou	35 (1989) 59
Kuriakose, A.K., see J. Gulens	35 (1989) 45
Kuriakose, A.K., see J.D. Canaday	35 (1989) 165
Kuroda, C., see N. Nakagawa	35 (1989) 249
Kushida, T., see M. Nagai	35 (1989) 213
Lassegues, J.C., B. Desbat, O. Trinquet, F. Cruge and C. Poinsignon, From model solid-state protonic conductors to new polymer electrolytes	35 (1989) 17
Lundén, A., see M. Friesel	35 (1989) 85, 91
Machida, N., R. Fuchida and T. Minami, Electrochemical insertion of lithium ions into V_2O_5 glasses containing transition-metal oxides	35 (1989) 295
Mahmood, M.N., see N. Bonanos	35 (1989) 179
Mangamma, G. and S.V. Bhat, NMR studies of the protonic conductor $(\text{NH}_4)_4\text{Fe}(\text{CN})_6 \cdot 1.5\text{H}_2\text{O}$	35 (1989) 123

Marmottini, M., see M. Casciola	35 (1989) 67
Mhiri, T. and Ph. Colombar, Spread of the conductivity jump in mixed alkali acid sulphates $\text{Cs}_{1-x}\text{HSO}_4$	35 (1989) 99
Michihiro, Y., A. Ohtani, T. Ohno, T. Kanashiro and A. Kojima, ac conductivity of the ionic conductor Ag_3Si	35 (1989) 337
Michiue, Y., M. Watanabe and Y. Fujiki, Structural properties of $\text{Na}-\beta''$ -gallate	35 (1989) 223
Minami, T., see N. Machida	35 (1989) 295
Miura, H., see H. Arashi	35 (1989) 323
Mizusaki, J., see H. Ikawa	35 (1989) 217
Mizusaki, J., see K. Tsuneyoshi	35 (1989) 263
Mori, K., see K. Tsuneyoshi	35 (1989) 263
Muto, S., T. Suemoto and M. Ishigame, Raman scattering of the superionic conducting glasses in the system $\text{AgI}-\text{Ag}_2\text{O}-\text{MoO}_3$	35 (1989) 307
Nagai, A., see H. Kaneko	35 (1989) 257
Nagai, M., T. Kushida and T. Nishino, Fabrication and evaluation of porous $\beta/\beta''-\text{Al}_2\text{O}_3$ ceramics prepared by the sol-gel process	35 (1989) 213
Nagai, M., see H. Owada	35 (1989) 401
Nagamoto, H., see K. Sakurai	35 (1989) 405
Naito, K., see T. Tsuji	35 (1989) 331
Nakagawa, N., H. Yoshioka, C. Kuroda and M. Ishida, Electrode performance of a thin-film YSZ cell set on a porous ceramic substrate by rf sputtering technique	35 (1989) 249
Nakamura, O., see Y. Saito	35 (1989) 241
Nakamura, O., see T. Asai	35 (1989) 319
Nakashima, A., see H. Arashi	35 (1989) 323
Nariki, S., see K. Uchinokura	35 (1989) 207
Nishino, T., see M. Nagai	35 (1989) 213
Nojiri, T., see K. Yamashita	35 (1989) 299
Novel-Cattin, F., see P. Aldebert	35 (1989) 3
Nowick, A.S., see T. Scherban	35 (1989) 189
Ogumi, Z., see Y. Uchimoto	35 (1989) 417
Ohachi, T., see S. Imai	35 (1989) 343
Ohachi, T., see M. Watanabe	35 (1989) 369
Ohachi, T., see S. Yoshikado	35 (1989) 377
Ohachi, T., see Y. Onoda	35 (1989) 387
Ohno, T., see Y. Michihiro	35 (1989) 337
Ohtani, A., see Y. Michihiro	35 (1989) 337
Ohtsuka, H. and J. Yamaki, Electrical characteristics of $\text{Li}_2\text{O}-\text{V}_2\text{O}_5-\text{SiO}_2$ thin films	35 (1989) 201
Okazaki, H., see F. Tachibana	35 (1989) 349
Okazaki, H., see T. Tomari	35 (1989) 355
Okuyama, R., see W.J. Zheng	35 (1989) 235
Onoda, Y., see S. Yoshikado	35 (1989) 377
Onoda, Y., M. Watanabe, Y. Fujiki, S. Yoshikado, T. Ohachi and I. Taniguchi, NMR study of one-dimensional ionic conductor $\text{A}_x\text{Ga}_8\text{Ga}_{8+x}\text{Ti}_{16-x}\text{O}_{56}$ ($\text{A}=\text{Cs, Rb}$)	35 (1989) 387
Owada, H., K. Yamashita, T. Umegaki, T. Kanazawa and M. Nagai, Humidity-sensitivity of yttrium substituted apatite ceramics	35 (1989) 401

Oyama, Y., see J. Kawamura	35 (1989) 311
Palombari, R., see G. Alberti	35 (1989) 153
Piffard, Y., see E. Husson	35 (1989) 133
Pinéri, M., see P. Aldebert	35 (1989) 3
Poinsignon, C., see J.C. Lassegues	35 (1989) 17
Poinsignon, C., The use of quasielastic neutron scattering to study the mechanism of proton transfer in fast solid protonic conductors	35 (1989) 107
Rodrigues-Castellon, E., see M.J. Hudson	35 (1989) 73
Rozière, J., see D.J. Jones	35 (1989) 115
Saito, M., H. Takahashi and S. Tamaki, Phase diagram and thermodynamic properties of $(\text{Ag}_x\text{Cu}_{1-x})\text{Br}$	35 (1989) 359
Saito, Y., T. Asai, O. Nakamura and Y. Yamamoto, Ionic conductivity enhancement of $\text{Na}_4\text{Zr}_2\text{Si}_3\text{O}_{12}$ by dispersed solid superacid $\text{SO}_4^{2-}/\text{ZrO}_2$	35 (1989) 241
Saito, Y., see T. Asai	35 (1989) 319
Sakurai, K., H. Nagamoto and H. Inoue, Microstructure of Pt electrodes over solid-electrolyte and its effects on interfacial impedance	35 (1989) 405
Sawata, A., see K. Tsuneyoshi	35 (1989) 263
Scherban, T. and A.S. Nowick, Bulk protonic conduction in Yb-doped SrCeO_3	35 (1989) 189
Schoonman, J., see M. Dekker	35 (1989) 157
Schram, J., see M. Dekker	35 (1989) 157
Sekido, S., see A. Yamashita	35 (1989) 397
Setoguchi, T., see T. Inoue	35 (1989) 285
Shima, K., see H. Ikawa	35 (1989) 217
Shimomura, O., see H. Arashi	35 (1989) 323
Shin, S., see H. Arashi	35 (1989) 323
Skou, E., see R.C.T. Slade	35 (1989) 29
Skou, E., see N. Knudsen	35 (1989) 51
Skou, E., I.G. Krogh Andersen, E. Krogh Andersen, M. Casciola and F. Guerrini, ac and dc conductivity of polyhydrated monolithium and monosodium salt forms of α -zirconium phosphate	35 (1989) 59
Slade, R.C.T., J. Barker and J.H. Strange, Protonic conduction and ^1H self-diffusion in NAFION film studied by ac conductivity and pulsed field gradient NMR techniques	35 (1989) 11
Slade, R.C.T., G.P. Hall and E. Skou, Ac and dc conductivity of crystalline pyrochlore antimonic acid, $\text{Sb}_2\text{O}_5 \cdot n\text{H}_2\text{O}$	35 (1989) 29
Sōmiya, S., see Y. Yokogawa	35 (1989) 275
Strange, J.H., see R.C.T. Slade	35 (1989) 11
Suemoto, T., see S. Muto	35 (1989) 307
Sugiyama, K., see Y. Suzuki	35 (1989) 269
Suzuki, Y. and K. Sugiyama, Electrical conduction behavior and phase transition of CaO -stabilized ZrO_2	35 (1989) 269
Sylvester, P., see M.J. Hudson	35 (1989) 73
Tachibana, F., M. Kobayashi and H. Okazaki, Correlation factor of silver ion in α - Ag_2Te by molecular dynamics method	35 (1989) 349

Tagawa, H., see K. Tsuneyoshi 35 (1989) 263
 Taimatsu, H., see H. Kaneko 35 (1989) 257
 Takahashi, H., see M. Saito 35 (1989) 359
 Takayama, H., S. Fujitsu and H. Yanagida, Gas-sensitive Ag ion conduction in semiconducting ZnO thin films 35 (1989) 411
 Takeda, T., see A. Yamashita 35 (1989) 397
 Takehara, Z., see Y. Uchimoto 35 (1989) 417
 Tamaki, S., see M. Saito 35 (1989) 359
 Taniguchi, I., see S. Imai 35 (1989) 343
 Taniguchi, I., see S. Yoshikado 35 (1989) 377
 Taniguchi, I., see Y. Onoda 35 (1989) 387
 Taniguchi, T., see H. Ikawa 35 (1989) 217
 Tomari, T., M. Kobayashi and H. Okazaki, Caterpillar motion of silver ions in α -Ag₂Te 35 (1989) 355
 Tomoyose, T., K. Yonashiro and M. Kobayashi, Collective excitations in layered superionic conductors 35 (1989) 431
 Trinquet, O., see J.C. Lassegues 35 (1989) 17
 Tsuchiya, H., see T. Tsuji 35 (1989) 331
 Tsuji, T., H. Tsuchiya and K. Naito, Diffusion broadening of the Mössbauer line of Fe_{1-x}S 35 (1989) 331
 Tsuneyoshi, K., K. Mori, A. Sawata, J. Mizusaki and H. Tagawa, Kinetic studies on the reaction at the La_{0.6}Ca_{0.4}MnO₃/YSZ interface, as an SOFC air electrode 35 (1989) 263
 't Zand, I., see M. Dekker 35 (1989) 157

Uchida, H., H. Yoshikawa and H. Iwahara, Dissolution of water vapor (or hydrogen) and proton conduction in SrCeO₃-based oxides at high temperature 35 (1989) 229

Uchimoto, Y., Z. Ogumi and Z. Takehara, Ionically conductive thin polymer films prepared by plasma polymerization. Part 6. Plasma parameter-dependent characteristics of solid polymer electrolytes composed of plasma polymerized tris(2-methoxyethoxy)vinylsilane-lithium perchlorate hybrids 35 (1989) 417

Uchinokura, K., S. Nariki, S. Ito and N. Yoneda, Thermal decomposition process and electrical conductivity of single crystals of NH₄⁺- β - and β'' -ferrites 35 (1989) 207

Umegaki, T., see K. Yamashita 35 (1989) 299

Umegaki, T., see H. Owada 35 (1989) 401

Urabe, K., see H. Ikawa 35 (1989) 217

Watanabe, A., Phase stability of Bi_{0.765}Sr_{0.235}O_{1.383}-type bismuth mixed oxides with hexagonal symmetry 35 (1989) 281

Watanabe, M., see Y. Michiue 35 (1989) 223

Watanabe, M., Y. Fujiki, S. Yoshikado and T. Ohachi, Structural features of a new compound K_{1-x}Ti_{2+x}Ga_{5-x}O₁₂ which exhibits one dimensional ionic conduction 35 (1989) 369

Watanabe, M., see S. Yoshikado 35 (1989) 377

Watanabe, M., see Y. Onoda 35 (1989) 387

Weller, M.T. and R.G. Bell, Proton mobility and the structure of MoO₂HPO₄·H₂O 35 (1989) 79

Wheat, T.A., see J. Gulens 35 (1989) 45

Wheat, T.A., see J.D. Canaday 35 (1989) 165

Yamaki, J., see H. Ohtsuka 35 (1989) 201

Yamamoto, Y., see Y. Saito 35 (1989) 241

Yamashita, A., S. Sekido, T. Hoshi and T. Takeda, Solid state photorechargeable cells us-

ing a complex electrode consisting of semiconductor and Chevrel compounds 35 (1989) 397

Yamashita, K., T. Nojiri, T. Umegaki and T. Kanazawa, New fast sodium-ion conducting glass-ceramics of silicophosphates: crystallization, microstructure and conduction properties 35 (1989) 299

Yamashita, K., see H. Owada 35 (1989) 401

Yanagida, H., see H. Takayama 35 (1989) 411

Yokogawa, Y., M. Yoshimura and S. Sōmiya, Lattice energy and polymorphism of fluorite-related rare earth-tantalum double oxides 35 (1989) 275

Yonashiro, K., see T. Tomoyose 35 (1989) 431

Yoneda, N., see K. Uchinokura 35 (1989) 207

Yoshikado, S., see M. Watanabe 35 (1989) 369

Yoshikado, S., T. Ohachi, I. Taniguchi, M. Watanabe, Y. Fujiki and Y. Onoda, Ion conduction in one-dimensional ionic conductors $A_{1-x}Ti_{2+x}B_{5-x}O_{12}$ (ATBO, A=Na or K and B=Al or Ga, $x < 1$) 35 (1989) 377

Yoshikado, S., see Y. Onoda 35 (1989) 387

Yoshikawa, H., see H. Uchida 35 (1989) 229

Yoshimura, M., see Y. Yokogawa 35 (1989) 275

Yoshioka, H., see N. Nakagawa 35 (1989) 249

Zheng, W.J., R. Okuyama, T. Esaka and H. Iwahara, Ionic conduction in the sintered oxides of the system $Li_2O-BaO-MO_2$ (M=Ti, Sn, Zr) 35 (1989) 235



SUBJECT INDEX TO VOLUME 35

Ac conductivity, 337, 377
Acid sulfate, 143
Acrylonitrile, 73
Alkaline-earth bismuth oxide, 281
Allylamine, 73
 α -tin(IV) hydrogen phosphate, 73
Ammonium, 207
Ammonium ferrocyanide, 123
Anisotropic and anharmonic vibration, 359
Antimonic acid, 133
Antimony oxide, 29
Apatite ceramics, 401
Atom trap, 343
 β/β'' -Al₂O, 213
 β -alumina, 207
 β -ferrite, 207
 β'' -alumina, 217
hydrogen, 165

CaO-stabilized ZrO₂, 269
Caterpillar mechanism, 355
Cation disorder model, 359
Ceramics, 213
Ceria-samaria system, 285
Cesium hydrogen sulfate, 91, 99
Chevrel compound, 397
Collective mode, 427
Collective motion, 431
Conduction plane, 223
Conductivity enhancement, 241
Cooperative jump, 355

Dc measurement, 217
Dielectric property, 311
Dielectric relaxation, 143
Diffusion, 331
Diffusion correlation factor, 349
DSC, 85, 99

Electrical conduction behavior, 269
Electronic conduction, 319
Electrode morphology, 249
Electrode process, 405
Electrode reaction, 257, 263
Electrolyser, 3
EXAFS, 115

Fluorite-related phase, 275
Fuel cell, 3, 165, 179

Gallo-titano gallate, 369, 387
Gas sensor, 411
Glass-ceramic, 299
Glass formation, 99
Grinding, 91

Hexamethylenetetramine, 73
High pressure, 73
Humidity
 influence, 213
 sensitivity, 401
Hydration, 59
Hydrotalcite, 35
Hygroscopy, 281

Impedance spectra, 405
Intercalation, 67, 73, 115
Insertion, 295
Ionic conductivity, 35, 319
 lithium, 201, 235
 oxygen, 179
 potassium, 369
 proton, 11, 17, 29, 45, 51, 59, 67, 79, 85, 107, 115, 123, 127,
 143, 153, 157, 165, 189, 217, 229
 silver, 411
 sodium, 223, 299
Ion exchange, 51
Iron sulfide, 331

Lamellar compounds, 35
Lattice energy, 275
Layered structure, 281, 431
Lithium hydrazinium sulfate, 127
Lithium ion, 295
Low frequency relaxation, 337

Mössbauer diffusional line broadening, 331
Microwave conductivity, 311
Mixed conductor, 323
Molecular dynamics, 349
Molybdenum phosphate, 79
Monomers, 73
Mordenite, 51

Na- β'' -gallate, 223
Nafion, 3, 11
NASICON, 45, 299
Neutron diffraction, 79
Neutron scattering, 107, 115
NMR, 11, 123, 133, 387
Noble metal electrode, 257

One-dimensional ionic conductor, 377, 387

Perovskite, 179

Phase diagram, 359

Phase transition, 91, 269

Phosphate, 133

Photorechargeable cell, 397

Plasma polymerization, 417

Platinum electrode, 405

Polymer electrolytes, 17

Pressure, 85

Pyrochlore, 29

Raman scattering, 127, 307

Random barrier model, 377

Rare earth-tantalum double oxide, 275

Rietveld analysis, 79

Semiconductor material, 397

Sensor, 153, 157, 165

Sintered oxides, 235

Sodium yttrium silicophosphate, 299

Sodium zirconium phosphate, 319

Sodium zirconium silicate, 241

SOFC air electrode, 263

Sol-gel process, 213

Solid electrolyte, 229, 257

Solid electrolyte fuel cell, 249

Solid oxide fuel cell, 285

Solid polymer electrolyte, 417

Solid state battery, 201

Solid state cell, 397

Solid superacid dispersion, 241

Solvation complex, 67

Sputter-deposited thin film, 249

Strontium cerate, 189

Substitution, 401

Superionic conducting glass, 311

Superionic conductor, 355, 427, 431

Superionic glass, 307

Superlattice, 427

Surface modification, 73

Surface reaction, 91

Surface transport, 59

Thin film, 201, 417

Titration curve, 343

Tunnel structure, 369

Vanadium oxide glass, 295

Vibrational spectra, 133

XANES, 323

Yttria-stabilized zirconia, 285

Zeolite, 157

Zinc oxide, 411

Zirconium phosphate, 59, 67, 153

